

TATRC Demonstrates Op-T-med Capabilities at Army Science Conference

Summer sizzled this past August with TATRC heating things up in the District! On 22 – 23 August, two members from the Medical Intelligent Systems Laboratory (MISL) represented TATRC at the 2018 National Defense Industrial Association's Army Science & Technology Symposium and Showcase. Project Managers Mr. James Beach and Ms. Rebecca Lee highlighted two key capabilities within MISL. The symposium, which focused on the Army's six modernization priorities: Long-Range Precision Fires, Next Generation Combat Vehicle, Future Vertical Lift Platforms, An Army Network with hardware, software, and infrastructure, Air and Missile Defense, and Soldier Lethality, was well attended by senior DoD researchers and VIPs including the Assistant Secretary of the Army (Acquisition, Logistics and Technology), the Honorable Dr. Bruce D. Jette, Deputy Assistant Secretary of the Army (Research and Technology), Dr. Thomas P. Russell, Army Vice Chief of Staff, General James C. McConville, and Commanding General, U.S. Army Medical Research and Materiel Command (MRMC), Major General Barbara R. Holcomb.

TATRC joined six other MRMC labs to exhibit and demonstrate technological capabilities at the symposium. Other labs included the U.S. Army Institute of Surgical Research, U.S. Army Medical Research Institute of Chemical Defense, U.S. Army Center for Environmental Health Research, U.S. Army Medical Research Institute of Infectious Diseases, the U.S. Army Research Institute of Environmental Medicine, and Walter Reed Army Institute of Research.

TATRC demonstrated two capabilities related to patient care and evacuation of the future. The first was



Ms. Rebecca Lee (left) and Mr. James Beach (right) showcasing MISL's key operational capabilities.

its new Environmental Factors Data Acquisition System (EFDAS), to characterize and study the flight profiles of various manned and unmanned aircraft and their effects on patient transport. The EFDAS represents a portion of the MISL's ongoing and future research in unmanned patient transport and autonomous patient care systems. The second demonstration was the lab's air-to-ground medical information exchange and patient telemonitoring research, which is a collaboration with PEO Aviation at Network Integration Exercises and Advance Warfighting Exercises. The MISL team displayed, various tactical radios, routers and other comms equipment, as well as end user

monitoring and medical information exchange platforms that have been developed and integrated.

The wide range of topics and representative organizations offered the ability to gain visibility into research being conducted by other Army organizations. Mr. James Beach stated that "this symposium offers the potential to form multi-functional collaborative research efforts that impact multiple modernization priorities. The medical research community should participate in future research symposiums sponsored at the Service level to identify high-impact research efforts across the Army enterprise." ■■■